FORM PTO-1390 (REV. 01-2003) US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER 124715

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) New U.S. National Stage of POT/JF077014571

INTERNATIONAL APPLICATION NO. PCT/JP03/014571

INTERNATIONAL FILING DATE November 17, 2003

PRIORITY DATE CLAIMED January 16, 2003

TITLE OF INVENTION

METHOD OF CONCENTRATING AND REMOVING HARMFUL SUBSTANCE USING DOUBLE-STRANDED DNA AND ADSORBENT AND APPARATUS THEREFOR APPLICANTS FOR DO/EO/US Xiang Dong LIU; Masaji MATSUNAGA; Norio NISHI Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3.  $\boxtimes$ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) A has been communicated by the International Bureau. c. 
 is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). c. 

The International Application was filed in English. 7. Amendments to the claims of the International Application under PCT Article 19 (35-U.S.C. 371(c)(3)) a. 

are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventors (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12.  $\boxtimes$ 13. A preliminary amendment. 14.  $\boxtimes$ An Application Data Sheet under 37 CFR 1.76.

- 15. A substitute specification.
- 16. A power of attorney and/or change of address letter.
- 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 1.825.
- 18. A second copy of the published international application under 35 U.S.C. 154(d)(4).
- 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20. Other items or information: Transmittal and Statement of Power of Attorney; International Search Report

JC17 Rec'd PCT/PTO 15 JUL 2005

U.S. APPLICATION NO. (if known, see 37 C.F.R. 15) New U.S. National Stage of 4 2 4 30 PCT/JP03/014571 PCT/JP03/014571		ATTORNEY'S DOCKET NUMBER 124715			
21.   The following fees are submitted:			CALCULATIONS	PTO USE ONLY	
				****	
BASIC NATIONAL FEE (37 CFR 1.492(a)):				\$300	
SEARCH FEE (37 CFR 1.492(b)(1)-(3)):				\$400	
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage					
International search fee (37					
International search report provided to USPTO no later than the time at which the search fee is paid\$ 400.00				·	
All situations not provided for above\$ 500.00					
EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)):				\$200	
International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage					
All situations not provided for above					
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
TOTAL PAGES OF APPLICATION OVER 100 ( - 100)	÷ 50	= †	x 250 =	\$	
†round up to next intege					
CLAIMS NUMBER FILED NUMBER EXTRA RATE			\$	*****	
TOTAL CLAIMS INDEPENDENT CLAIMS	6- 20 1- 3	= 0	x 50.00 =	\$	
			x 200.00 = + 360.00 =	\$	<del></del>
MULTIPLE DEPENDENT CLAIM(S)(if applicable) + 360.00 =  TOTAL OF ABOVE CALCULATIONS =				\$900	1
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are				\$	
reduced by ½ .					
SUBTOTAL =				\$900	<del></del>
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$900	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$900	<del></del>
1.0/1				Amount to be	
				refunded:	\$
				charged:	\$
<ul> <li>a.</li></ul>					
sheet is enclosed.  C.   The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to					
Deposit Account No. <u>15-0461</u> . A duplicate copy of this sheet is enclosed.					
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:					
OLIFF & BERRIDGE, PLC Customer Number: 25944 NAME: Jame					
TV III.				s A. Oliff DN NUMBER:    27,0	75
Date July 15, 2005  NAME: Eric. D. Morehouse REGISTRATION NUMBER: 38,565					

## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Xiang Dong LIU et al.

Application No.: New U.S. Patent Application

Filed: July 15, 2005

Docket No.: 124715

For:

METHOD OF CONCENTRATING AND REMOVING HARMFUL SUBSTANCE USING DOUBLE-STRANDED DNA AND ADSORBENT AND APPARATUS THEREFOR

## TRANSMITTAL OF POWER OF ATTORNEY AND STATEMENT UNDER 37 CFR § 3.73(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignee.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that NISSEI BIO CO., LTD. is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto]

The undersigned is authorized to act on behalf of the assignee.

In accordance with 37 CFR §1.36(a), submission of this Power of Attorney revokes any powers of attorney previously given.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

Respectfully submitted,

Eric D. Morehouse Registration No. 38,565

JAO:EDM/cqc

Date: July 15, 2005